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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/014,792	12/14/2001	Choon Yul Oh	1514.1004	1633

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EXAMINER

DINH, DUC Q

ART UNIT	PAPER NUMBER
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2674

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DATE MAILED: 04/19/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/014,792

Applicant(s)

OH, CHOON YUL

Examiner

DUC Q DINH

Art Unit

2674

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 10 February 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-8 and 10-12 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-6 is/are allowed.
- 6) ☐ Claim(s) 7,8 and 12 is/are rejected.
- 7) ☒ Claim(s) 10 and 11 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 7 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant Admitted Prior Art (pages 1-3 and Fig. 1-3), hereinafter AAPA.

In reference to claims 7 and 12 the AAPA shown in Fig. 1 the display panel including a segment terminal connect to the data lines, the common terminal connected to the scan lines and arranged in a perpendicular direction of the data lines; that the driver controller having RAM 23 storing data and outputting the data form the display RAM in the same direction as a longitudinal direction of the scan lines (page 2, [0003]-[0004]).

Absent a showing of critically and/or unexpected result, it would be obvious to one of ordinary skill in the art to resize the line between the common terminal and the driver control terminal to make it shorter than that of between the segment terminal and the driver controller [claim 7] (or resize the line length between the common driver and the common terminal to make it shorter than that between the segment driver circuit and the segment terminal [claim 12]) as desired as was judicially recognized with IN ROSES, 105 USPQ 237 (CCPA 1955), which

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recognizes that the relocation of well known element is normally not desired toward patentable subject matter.

In reference to claim 8, refer to the rejection of claim 7. In addition, Absent a showing of critically and/or unexpected result, it would be obvious to one of ordinary skill in the art to relocate the data lines and the row lines as desired as was judicially recognized with IN RE JAPIKEE USPQ 70 (CCPA 1950), which recognizes that the relocation of well known element is normally not desired toward patentable subject matter.

Allowable Subject Matter

3. Claims 1-6 are allowed.

4. The following is an examiner's statement of reasons for allowance: None of the reference cited teaches or suggested;

An organic EL display control system wherein the data is vertically written on and vertically read out from the display RAM, and the read data is transmitted to the display.

5. Claims 10 and 11 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The following is a statement of reasons for the indication of allowable subject matter:

None of the reference cited teaches or suggests an organic EL display control system in claim 7

a driver controller having "a page address generating circuit connected to the display RAM through address buses and designating vertically a page address to store the data during a

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write operation; a data latch circuit connected to the display RAM through data buses so that the data of a column is output from the display RAM at a time during a read operation” (claim 10);
or

wherein the data is image data and the image is turned up by conversely changing a connection order of pins of an input side of the display RAM (claim 11).

Response to Arguments

6. Applicant's arguments, see pages 5-8 of the amendment, filed on February 10, 2004, with respect to the 102(a) Rejection have been fully considered and are persuasive. Claims 1-6 has are allowable. However, claims 7-8 and 12 are rejected upon further consideration, a new ground(s) of rejection is made as the reason set forth in the 103(a) Rejection in this Office Action. Therefore, the rejection is maintained.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **DUC Q DINH** whose telephone number is **(703) 306-5412**. The examiner can normally be reached on Mon-Fri from 8:00.AM-4:00.PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **RICHARD A HJERPE** can be reached on **(703) 305-4709**.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

Or faxed to:

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(703) 872-9306 (for Technology Center 2600 only)

Hand-delivery response should be brought to: Crystal Park II, 2121 Crystal Drive,
Arlington, Va Sixth Floor (Receptionist)

Any inquiry of a general nature or relating to the status of this application or proceeding
should be directed to the Technology Center 2600 Customer Service Office whose telephone
number is (703) 305-4700.

DUC Q DINH
Examiner
Art Unit 2674

DQD
April 16, 2004


REGINA LIANG
PRIMARY EXAMINER